

*[Handwritten signature]*

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/720,297
Filing Date	November 24, 2003
First Named Inventor	JOE A. ORTIZ ET AL.
Art Unit	2838
Examiner Name	Patel, Rajnikant
Attorney Docket Number	PD-03W081

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please Identify below):
Remarks		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	RAYTHEON COMPANY		
Signature			
Printed name	JOHN E. GUNTHER		
Date	August 17, 2005	Reg. No.	43,649

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	JOHN E. GUNTHER	Date	August 17, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Patent  
PD-03W081

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: ) Date: August 17, 2005  
JOE A. ORTIZ ET AL. )  
Serial No.: 10/720,297 ) Art Unit: 2838  
Filed: November 24, 2003 )  
Title: **METHOD FOR INPUT CURRENT  
REGULATION AND ACTIVE POWER  
FILTER WITH INPUT VOLTAGE ...**) Examiner: Patel, Rajnikant

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313

Dear Sir:

The references cited on the enclosed form PTO/SB/08A/08B (copies of references enclosed) may be material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37CFR 1.56.

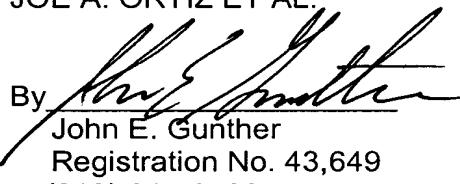
This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, or that additional information constitutes prior art.

I hereby certify that each item in the Search Report was cited by a foreign patent office, in a counterpart foreign application, not more than three (3) months prior to the filing of this Statement.

Respectfully submitted,

JOE A. ORTIZ ET AL.

By



John E. Gunther

Registration No. 43,649

(310) 647-3723

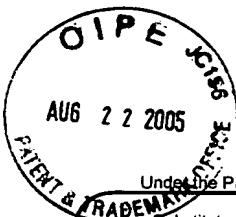
Raytheon Company  
Bldg. EO4, Mail Station N119  
P.O. Box 902  
El Segundo, CA 90245-0902

\*\*\*\*\*

*I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First-Class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313, on August 17, 2005.*



John E. Gunther



AUG 22 2005

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for Form 1449/BTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 2

Complete if Known	
Application Number	10/720,297
Filing Date	November 24, 2003
First Named Inventor	Joe A. Ortiz
Art Unit	2838
Examiner Name	Patel, Rajnikant
Attorney Docket Number	PD-03W081

**Examiner Signature** \_\_\_\_\_ **Date Considered** \_\_\_\_\_

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 2

Attorney Docket Number PD-03W-81

<b>Application Number</b>	10/720,297
<b>Filing Date</b>	11/24/2003
<b>First Named Inventor</b>	Joe A. Ortiz
<b>Art Unit</b>	2838
<b>Examiner Name</b>	Patel, Rajnikant

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		RAMI, NAIM ET AL: "H Deg Deg Control of Boost Converters: Comparison to Voltage Mode, feedforward, and Current Mode Controls",	
		Record of the Annual Power Electronics Specialists Conference, 12 June 1995, pp 1327-1332, Vol. 2 conf. 26, IEEE, New York, NY, USA	
		REDL, R ET AL: "Optimizing the Load Transient Response of the Buck Converter", Applied Power Electronics Conference and Exposition,	
		15 February 1998, pp 170 - 176, Vol. 1, IEEE, New York, NY, USA	
		KANEMARU, S ET AL: "Analysis and Optimum Design of a Buck-Type DC-to DC Converter Employing Load current Feedforward", Power Electronics Specialists Conference, 17 May 1998, pp 309-314, Vol. 1, IEEE, New York, NY, USA	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.